

AMENDMENTS TO THE CLAIMS

Brief Status of Claims

Claims 1, 4, 5, 7-14, 17, 18 and 22-32 are Currently Amended.

Claims 2, 3, 6, 15, 16 and 19-21 are Original Claims.

Claim 33 is a New Claim.

Complete Listing of Claims

1. (Currently Amended) A fatty acid composition ~~characterized in that said composition contains comprising~~ less than 3 % saturated fatty acids, more than 10 % C18;3 fatty acids, more than 30 % C18;2 fatty acids and less than 35 % C18;1 fatty acids, said fatty acids ~~providing improved composition comprising~~ low temperature stability ~~of the composition, and that the~~ and a cloud point of said fatty acid composition is lower than -4 °C, and said composition lacks a paraffine dispersant, wherein C18;3 is defined as C18 tri-unsaturated fatty acid, wherein C18;2 is defined as C18 di-unsaturated fatty acid, and wherein C18;1 is defined as C18 mono-unsaturated fatty acid.
2. (Original) A fatty acid composition according to claim 1 characterized in that said fatty acids are derived from plant sources.
3. (Original) A fatty acid composition according to claim 1 or 2 characterized in that said fatty acids are derived from tall oil or vegetable sources.
4. (Currently Amended) A fatty acid composition according to claim 1, 2 or 3 characterized in that the composition contains less than ~~1.5 %~~ 2.2% saturated fatty acids and more than 90 %; ~~preferably more than 95 %, more preferably more than 98 %~~ unsaturated fatty acids.

5. (Currently Amended) A fatty acid composition according to claim 4 characterized in that the content of the C18;3 fatty acids is more than 15 %, ~~more preferably more than 20 %, most preferably more than 25 %.~~
6. (Original) A fatty acid composition according to claim 5 characterized in that said C18;3 fatty acid is pinolenic acid.
7. (Currently Amended) A fatty acid composition according to claim 4 or 5 characterized in that the total content of C16;0, C17;0 and C18;0 fatty acids is less than 1.5% ~~2.2 %, more preferably less than 1 %, most preferably less than 0.5 %~~ wherein C16;0 is defined as C16 saturated fatty acids, wherein C17;0 is defined as C17 saturated fatty acids, and wherein C18;0 is defined as C18 saturated fatty acids.
8. (Currently Amended) A fatty acid composition according to claim 4 characterized in that the content of C20;0 fatty acids is less than 1 %, ~~preferably less than 0.5 %~~ wherein C20;0 is defined as C20 saturated fatty acids.
9. (Currently Amended) A fatty acid composition according to claim 4 characterized in that the content of the resin acids is less than 5 %, ~~preferably less than 2 %, more preferably less than 1 %.~~
10. (Currently Amended) A fatty acid composition according to claim 4 characterized in that the content of the C18;2 fatty acids is more than 40 %, ~~more preferably more than 50 %.~~
11. (Currently Amended) A fatty acid composition according to claim 4 characterized in that the content of the C18;1 fatty acids is less than 25 %, ~~more preferably less than 20 %.~~
12. (Currently Amended) A fatty acid composition according to any one of the preceding claims 1, 2, 5, 6, 8, 9, 10 or 11 wherein said ~~characterized in that the composition contains~~ comprises more than 10 %, ~~preferably more than 15 %~~ C18;3 fatty acids and more than 30 %, ~~preferably more than~~

~~40 % C18; 2 fatty acids and less than 1 %, preferably less than 0.5 % C18;0 fatty acids and less than 2 %, preferably less than 1 % resin acids and the total of saturated fatty acids is less than 1.5 %.~~

13. (Currently Amended) A fatty acid composition according to any one of the ~~preceeding~~ claims 1, 2, 5, 6, 8, 9, 10 or 11 having a cloud point factor below 0.28 calculated according to the equation $Cp_{fac} = A [C16;0] + B [C17;0] + C [C18;0] + D [C20;0] + E [C18;1] + F [C18;2] + G [C18;3] + H [Resin]$, wherein [C16;0] means concentration of C16 saturated fatty acids, [C17;0] means concentration of C17 saturated fatty acids, [C18;0] means concentration of C18 saturated fatty acids, [C20;0] means concentration of C20 saturated fatty acids, [C18;1] means concentration of C18 mono- unsaturated fatty acids, [C18;2] means concentration of C18 di-unsaturated fatty acids, [C18;3] means concentration of C18 tri-unsaturated fatty acids, [Resin] means concentration of C16 resin fatty acids and concentration factors are $A = 6.2$, $B = 1.32$, $C = 34.5$, $D = 0.075$, $E = 1.3$, $F = -0.27$, $G = -5.1$ and $H = 17$.

14. (Currently Amended) A fatty acid composition according to any one of the ~~preceeding~~ claims 1, 2, 5, 6, 8, 9, 10 or 11 characterized in that the cloud point of said fatty acid composition is lower than -6°C , ~~preferably lower than -10°C , more preferably lower than -15°C , most preferably lower than -20°C .~~

15. (Original) An ester characterized in that said ester is produced from fatty acid composition according to claim 1.

16. (Original) A glycerol ester characterized in that said glycerol ester is produced from fatty acid composition according to claim 1.

17. (Currently Amended) A process for producing a fatty acid composition ~~aeccording to claim 1~~ characterized in that said process comprises comprising the steps of selecting a crude tall oil ~~having a fatty acid concentration and type capable of providing low temperature stability~~

distilling said crude tall oil to provide a fatty acid composition ~~containing an effective amount of tall oil fatty acids providing low temperature stability~~ comprising less than 3 % saturated fatty acids, more than 10 % C18;3 fatty acids, more than 30 % C18;2 fatty acids and less than 35 % C18;1 fatty acids, said composition comprising a cloud point lower than -4 °C, wherein C18;3 is defined as C18 tri-unsaturated fatty acid, wherein C18;2 is defined as C18 di-unsaturated fatty acid, and wherein C18;1 is defined as C18 mono-unsaturated fatty acid.

18. (Currently Amended) A process according to claim 17 ~~characterized in that selecting includes blending~~ wherein said crude tall oil comprises a blend of different crude tall oils.

19. (Original) A process according to claim 17 characterized in that said crude tall oil is derived from trees grown in a cold climate.

20. (Original) A process according to claim 17 characterized in that more than 4 % of the fatty acids of the crude tall oil are triple unsaturated fatty acids.

21. (Original) A process according to claim 17 characterized in that less than 1 % of the fatty acids of the crude tall oil are saturated fatty acids of C 18 or greater.

22. (Currently Amended) A process according to claim ~~13~~ 17 wherein ~~characterized in that~~ less than 0.3 %, ~~preferably less than 0.2 %, more preferably less than 0.1 %~~ of the fatty acids of the crude tall oil are C18;0 fatty acids.

23. (Currently Amended) ~~Use of a~~ The fatty acid composition according to claim 1 wherein said composition is as a fuel additive.

24. (Currently Amended) ~~Use of a~~ The fatty acid composition according to claim 1 23, wherein said fuel additive improves as a lubricity performance of improver in fuel.

25. (Currently Amended) ~~Use according to~~ The composition of claim 24 characterized in that further comprising at least one fuel additive component said lubricity improver forms a part of a fuel additive package containing other additives.

26. (Currently Amended) ~~Use according to~~ The composition of claim 25 characterized in that wherein said other at least one fuel additive component is selected from the group consisting additives are one or more of detergent, cold flow additive, antifoam, static dissipate and/or antioxidant.

27. (Currently Amended) ~~Use of~~ A fuel additive comprising an ester according to claim 15 or 16 as a fuel additive.

28. (Currently Amended) A fuel additive comprising a fatty acid composition according to claim 1 characterized in that it wherein said fuel additive is stable at temperature temperatures below -4 °C.

29. (Currently Amended) A fuel ~~containing a fatty acid additive characterized in that said fuel contains~~ comprising an effective amount of a low temperature stable fatty acid lubricity enhancer the fatty acid composition according to claim 1 which wherein said fuel is stable at temperature temperatures below -4 °C.

30. (Currently Amended) A fuel according to claim 29 characterized in that said fuel is selected from the group consisting of diesel, gas oil, gasoline, aviation fuel, or kerosene, or and a mixture mixtures thereof.

31. (Currently Amended) A fuel according to claim 29 characterized in that sulfur content of said fuel is less than 500 ppm, ~~preferably less than 350 ppm, more preferably less than 50 ppm, more preferably less than 15 ppm, most preferably less than 10 ppm.~~

32. (Currently Amended) A fuel according to claim 29 characterized in that said fuel contains 10 to 1000 ppm of said fatty acid ~~lubricity-enhancer~~ composition.

33. (New) A fatty acid composition comprising less than 1.5 % saturated fatty acids, more than 10 % C18;3 fatty acids, more than 40 % C18;2 fatty acids, less than 30 % C18;1 fatty acids, less than 2.0% resins, a cloud point lower than -10 °C, wherein C18;3 is defined as C18 tri-unsaturated fatty acid, wherein C18;2 is defined as C18 di-unsaturated fatty acid, and wherein C18;1 is defined as C18 mono-unsaturated fatty acid.